

PROJECT BRIEF

Structural Strengthening to Newly Constructed RC beams at a Condominium Complex with the TYFO® Fibrwrap® Composite System



Jakarta, Indonesia
November 2005



Structural strengthening was required at a luxurious condominium project in Jakarta during the construction phase; this was due to the use of steel reinforcement with tensile strength of 400 MPa instead of the required tensile strength of 500 MPa according to the consultant's design. There was a mix-up of steel as two different steel grades were used for the project.

At various locations, RC beams were constructed with the wrong steel. It was found to be too costly and time-consuming to enhance these beams with additional steel reinforcement through concrete enlargement or removal of the existing newly-cast concrete. Knowing that strengthening using fibre-reinforced polymer (FRP) composite strengthening systems was the best solution, the project management team requested for a FRP strengthening proposal from Fyfe Asia Pte Ltd and other major competitors in the FRP Industry. Through Fyfe Asia's applicator in Indonesia, the TYFO® Fibrwrap® System was proposed and accepted readily by the project management team for its sound technical proposal and cost competitiveness. The comprehensive strengthening proposal, design and detailing gave the client greater confidence in selecting the TYFO® Fibrwrap® System over the competitors.

The TYFO® Fibrwrap® Systems was successfully installed within the required time-frame of the project, satisfying all parties involved with no delay in overall progress of the project.

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